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T.I.P. NO.	SHEET NO.
R-5812	UC-1

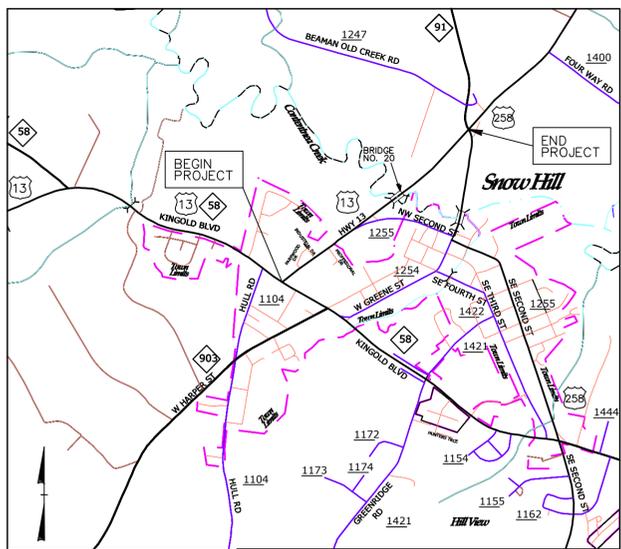
TIP PROJECT: R-5812

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS GREENE COUNTY

**LOCATION: WIDENING OF HWY 13 (MLK JR PKWY)
SNOW HILL, NORTH CAROLINA**

TYPE OF WORK: WATER AND SEWER RELOCATION

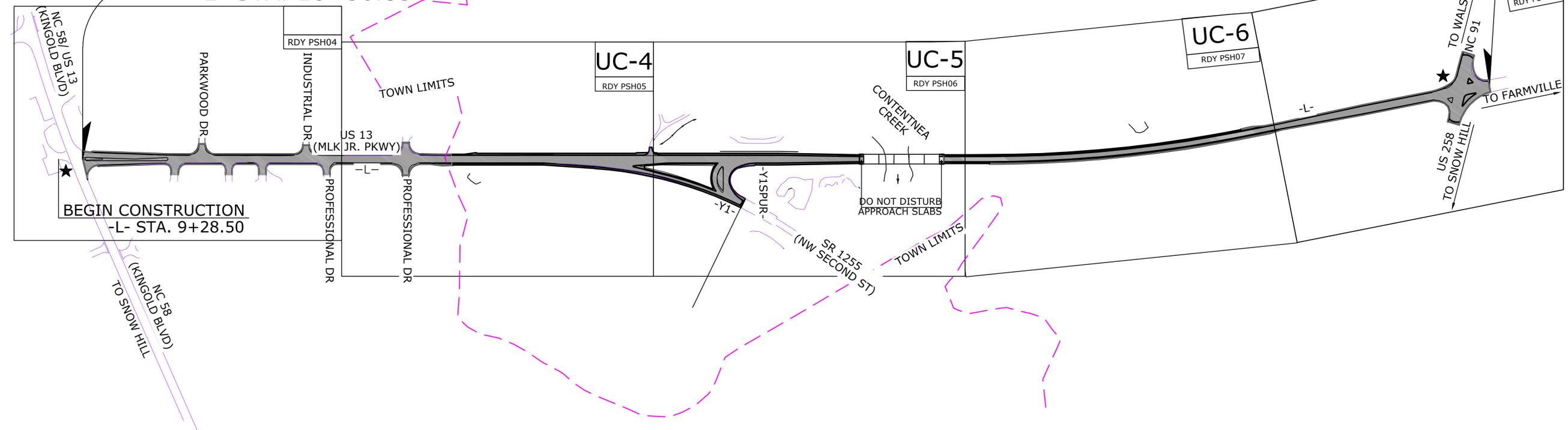


VICINITY MAP
(NOT TO SCALE)



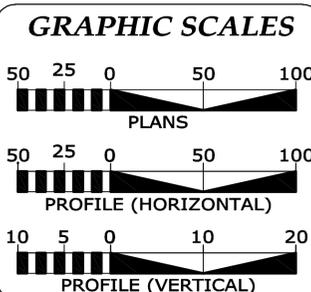
**END TIP PROJECT R-5812
-L- STA. 73+83.06**

**BEGIN TIP PROJECT R-5812
-L- STA. 10+36.85**



**BEGIN CONSTRUCTION
-L- STA. 9+28.50**

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED



INDEX OF SHEETS	
SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A	DETAILS
UC-4 THRU UC-7	UTILITY CONST. SHEETS

WATER AND SEWER OWNERS ON PROJECT

(A) WATER- SNOW HILL
(B) SANITARY SEWER- SNOW HILL

PREPARED IN THE OFFICE OF:

GREEN ENGINEERING, PLLC

GREEN ENGINEERING
WATER, WASTEWATER, SURVEYING, PLANNING, PROJECT MANAGEMENT
NORTH CAROLINA FIRM LICENSE: P-0115
303 GOLDSBORO STREET EAST, P.O. BOX 609 WILSON, N.C. 27893
TEL (252) 237-5365 FAX (252) 243-7489 OFFICE@GREENENG.COM



**DIVISION OF HIGHWAYS
DIVISION 02**

DIV ADDRESS:
1037 W.H. SMITH BLVD
GREENVILLE, NC 27835

CASEY WHITLEY, P.E.	DIVISION PROJECT ENGINEER
DAVID KRAMER	UTILITIES ENGINEER
ROBIN SOBHA	UTILITY COORDINATOR
LEO GREEN, III, P.E.	UTILITY CONSULTANT



UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
111/4 Degree Bend	
221/2 Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	REM FH
Water Meter	
Relocate Water Meter	
Remove Water Meter	REM WM
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

NOTE
 PAY ITEM

EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	
End of Information	E.O.I.		

*For Existing Utilities
 Utility Line Drawn from Record (Type as Shown) _____
 Designated Utility Line (Type as Shown) _____

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012.
2. THE EXISTING UTILITIES BELONG TO THE TOWN OF SNOW HILL, NORTH CAROLINA.
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

SPECIAL PROVISIONS:

THE TOWN OF SNOW HILL IS THE OWNER OF THE EXISTING WATER SYSTEM AND THE EXISTING SANITARY SEWER SYSTEM

PROJECT SPECIFIC NOTES:

1. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.
2. IF HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL. IT SHALL BE FILLED WITH WATER AND NOT BE CONNECTED TO ANY OTHER PIPE OR FITTINGS FOR ONE WEEK FROM THE TIME OF INSTALLATION.

WATER MAIN GENERAL CONSTRUCTION NOTES

1. Utilities shown on plans are as accurate as current records and information allow. Contractor will be responsible for verifying the location of all existing utilities and services whether shown on plans or not prior to construction. Contractor shall be responsible for removal and replacement of these facilities if damaged.
2. All proposed water mains to be SDR-21 unless otherwise noted on the plans.
3. Minimum cover of 3'-0" shall be maintained for all water mains unless otherwise noted. No additional payment will be made for water mains installed at depths greater than 3'-0" when directed by the Engineer or required by field conditions.
4. Whenever a water main crosses over a storm pipe with less than 18" of separation, or passes under a storm pipe the water main needs to be ferrous (DIP) for 10'-0" on each side of the crossing. Joints should be centered of the pipe crossing. The contractor may be required to install ductile iron water mains at other roadway culvert crossings at the direction of the engineer.
5. In the event the minimum 3'-0" cover and minimum 2'-0" separation can be maintained, the Contractor may install the proposed water main over existing storm drainage if approval from the State of North Carolina Department of Transportation is granted.
6. Water mains shall be laid at least 10'-0" laterally from existing or proposed sewers, unless local conditions or barriers prevent a 10'-0" lateral separation in which case:
 - a) The water main is laid in a separate trench, with the elevation of the bottom of the water main at least 18 inches above the top of the sewer or,
 - b) The water main is laid in the same trench as the sewer with the water main located at one side on the trench of undisturbed earth, and with the elevation of the bottom of the water main at least 18 inches above the top of the sewer.
7. Whenever it is necessary for a water main to cross over a sewer, the water main should be laid at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer, unless local conditions or barriers prevent an 18 inch vertical separation--in which case both water main and sewer shall be constructed of ferrous materials and with the joints that are equivalent to water main standards for a distance of 10'-0" on each side of the point of crossing.
8. Whenever it is necessary for a water main to cross under a sewer, both the water main and the sewer shall be constructed of ferrous materials and with joints that are equivalent to water main standards for a distance of 10'-0" on each side of the point of crossing. A section of water main pipe shall be centered at the point of crossing.
9. Proposed water main installations under ALL existing driveways shall be bored when the proposed water main is less than 12 inches in diameter.
10. All existing driveway culverts that conflict with the proposed water main offset as shown on the plans shall be removed and replaced.
11. Driveways shall be restored to original or better condition immediately after completion of installation of water main across same.
12. All work necessary for the installation of the proposed water mains including those items called for in these notes and as shown in the project specifications shall be included in the unit price bid for the appropriate water main item.

PROJECT REFERENCE NO.		SHEET NO.
R-5812		UC-3
DESIGNED BY: WLY	6/25/2018	
DRAWN BY: WLY		
CHECKED BY: .		
APPROVED BY: .		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151		

UTILITY CONSTRUCTION

GREEN ENGINEERING
 WATER, WASTEWATER, SURVEYING, PLANNING, PROJECT MANAGEMENT
 NC FIRM LICENSE: P-0115
 303 GOLDSBORO ST. E. P.O. BOX 609 WILSON, NC. 27893
 TEL. (252) 237-5365 FAX (252) 243-7489 office@greeneng.com

CONSTRUCTION SEQUENCE

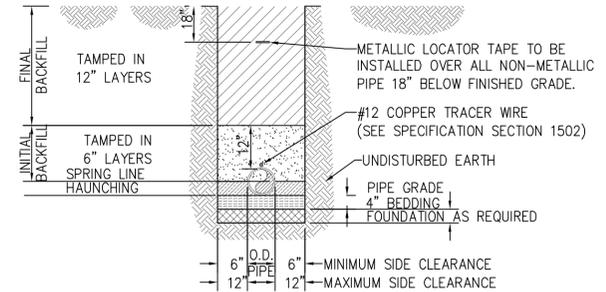
1. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF PROPOSED IMPROVEMENTS BY CONTACTING NORTH CAROLINA 811 (NC811).
2. PRIOR TO BEGINNING WORK IN PUBLIC RIGHTS OF WAYS THE CONTRACTOR SHALL PROPERLY CLOSE ANY/ALL LANES REQUIRED FOR INSTALLATION OF PROPOSED UTILITIES AND HAVE PROPER 'DETOUR ROUTES' ESTABLISHED WITH REQUIRED SIGNAGE POSTED ALONG THE DETOUR ROUTES.
3. THE WATER PROFILE LENGTH REFERENCED ON THE CONSTRUCTION DRAWINGS REFERS TO THE HORIZONTAL LENGTH OF THE BORE BASED ON THE CENTERLINE STATIONING OF THE ROADWAY.
4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE FOLLOWING INDIVIDUALS AND NOTIFY THEM OF THE ANTICIPATED START DATE AND SCHEDULE:
 - LEO GREEN (GREEN ENGINEERING) 252-237-5365
 - TODD WHALEY (TOWN OF SNOW HILL PUBLIC WORKS DIRECTOR) 252-560-5949
 - JOE ROBERTS (TOWN OF SNOW HILL PWS / WASTEWATER ORC) 252-939-5213
 - DAVID JONES (GREENE COUNTY PUBLIC WORKS DIRECTOR) 252-747-5720
 - CASEY WHITLEY (NCDOT-PROJECT ENGINEER) 252-439-2811
 - DAVID KRAMER (NCDOT-DIVISION UTILITY ENGINEER) 252-439-2805
5. THE CONTRACTOR SHALL COORDINATE WITH TOWN OF SNOW HILL AS WELL AS GREENE COUNTY PUBLIC UTILITIES ON LOCATING SYSTEM VALVES SO THE WATER MAIN BEING RELOCATED AND OTHER ADJACENT MAINS CAN BE ISOLATED IN CASE OF A SYSTEM BREAK DURING CONSTRUCTION OR DURING CONNECTION OF THE NEWLY INSTALLED MAIN WITH THE EXISTING MAIN.

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PROJECT REFERENCE NO.	SHEET NO.
R-5812	UC-3A
DESIGNED BY: WLY	7/15/2010
DRAWN BY: WLY	
CHECKED BY: -	
APPROVED BY: -	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

NCDOT TIP: 5812

PAY ITEM NUMBER	PAY ITEM DESCRIPTION	QUANTITIES BY SHEET			
		UC-04	UC-05	UC-06	UC-07
5326000000-E	10" WATER LINE	1,200	1,400	1,400	1,215
5329000000-E	DUCTILE IRON WATER PIPE FITTINGS	1,330	0	0	735
5552000000-E	10" VALVE	3	1	1	2
5648000000-N	RELOCATE WATER METER	1	0	0	0
5649000000-N	RECONNECT WATER METER	1	0	0	0
5686500000-E	WATER SERVICE LINE	20	0	0	0
5691300000-E	8" SANITARY GRAVITY SEWER	300	0	0	0
5775000000-E	4' DIA UTILITY MANHOLE	3	0	0	0
5802000000-E	ABANDON 10" UTILITY PIPE	1,170	1,400	1,400	1,180
5835800000-E	18" ENCASEMENT PIPE	0	0	0	180
5872500000-E	BORE AND JACK OF 18"	0	0	0	180
5872600000-E	DIRECTIONAL DRILLING OF 10" UTILITY PIPE	0	1,300	200	0



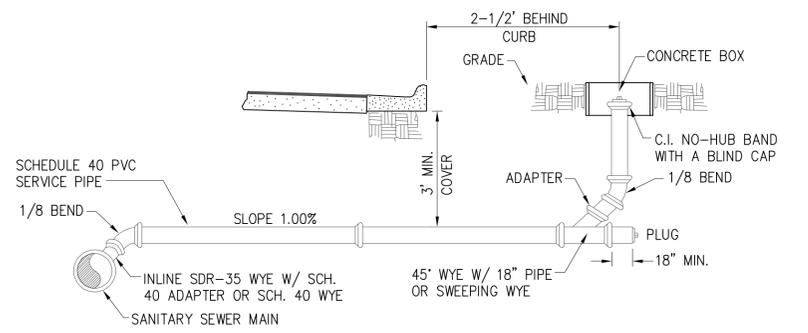
- NOTES:**
- FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
 - STONE BEDDING SHALL BE REQUIRED FOR PVC MAINS WHERE UNSUITABLE SUBSURFACE CONDITIONS EXIST AS DIRECTED BY THE ENGINEER.
 - NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN THE INITIAL BACKFILL.
 - ALL BACKFILL MATERIAL SHALL BE SELECT BACKFILL UNLESS SPECIFIED BY THE ENGINEER.

Green Engineering TYPICAL BACKFILLING REQUIREMENTS AND TRENCH BOTTOM DIMENSIONS
 LAST REVISED: NOVEMBER 23, 2010 BY: JE SCALE: NONE
 DETAIL 33-01-08A SHEET 1 OF 1

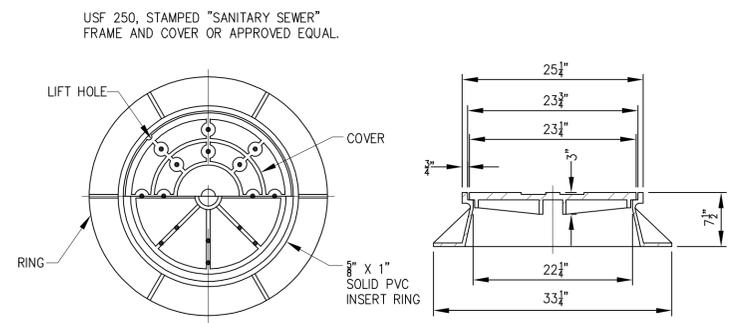
UTILITY CONSTRUCTION

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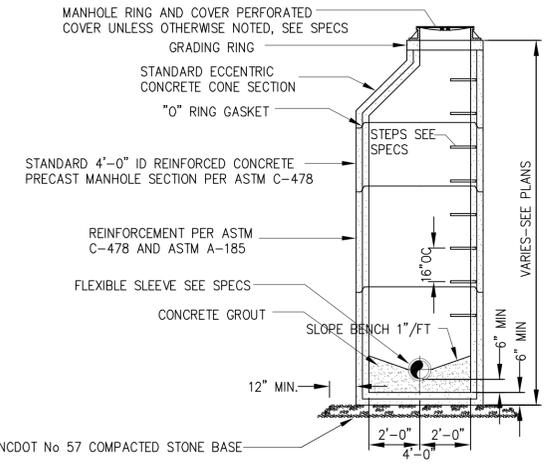
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



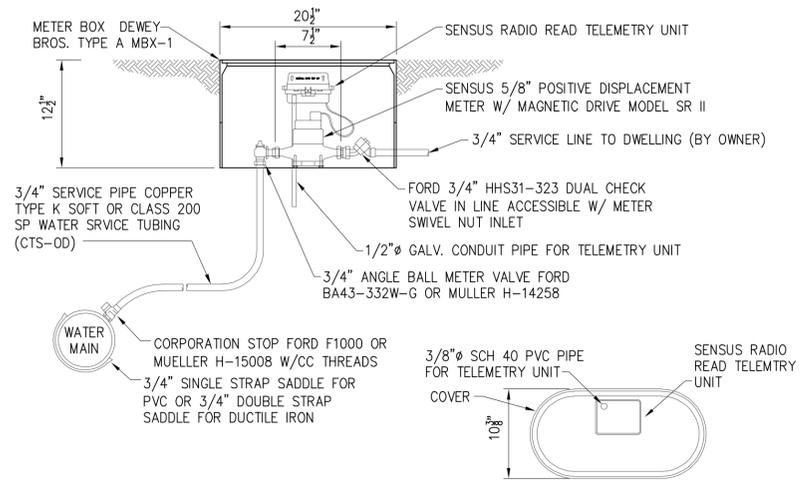
Green Engineering SANITARY SEWER DETAIL
 LAST REVISED: NOVEMBER 23, 2010 BY: JE SCALE: NONE
 DETAIL 33-30-06 SHEET 1 OF 1



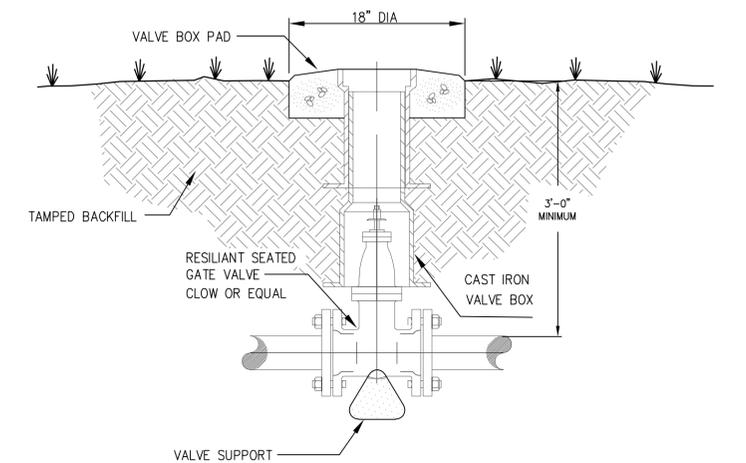
Green Engineering C.I. FRAME AND COVER
 LAST REVISED: NOVEMBER 23, 2010 BY: JE SCALE: NONE
 DETAIL 33-05-09 SHEET 1 OF 1



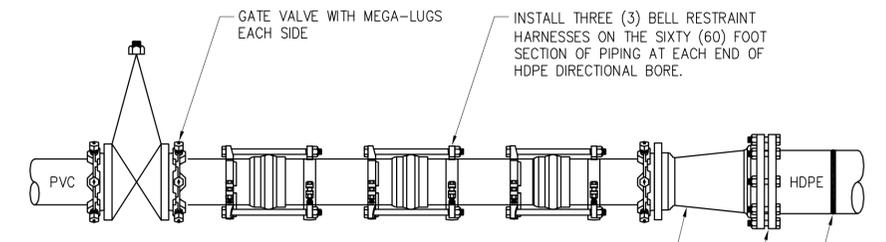
Green Engineering 4'-0" I.D. MANHOLE
 LAST REVISED: NOVEMBER 23, 2010 BY: JE SCALE: NONE
 DETAIL 33-05-01 SHEET 1 OF 1



Green Engineering WATER SERVICE DETAIL
 LAST REVISED: NOVEMBER 23, 2010 BY: JE SCALE: NONE
 DETAIL 33-10-08 SHEET 1 OF 1



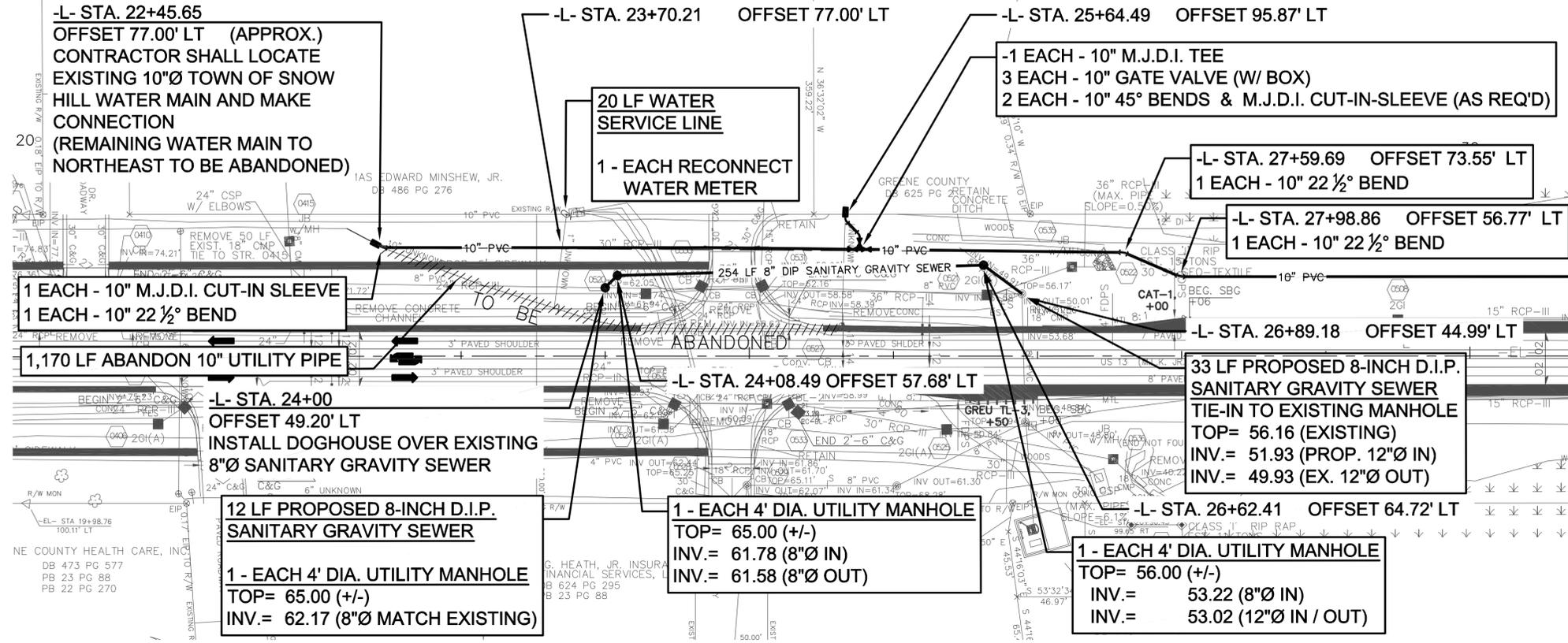
Green Engineering VALVE BOX INSTALLATION & EXTENSION DETAIL
 LAST REVISED: NOVEMBER 23, 2010 BY: JE SCALE: NONE
 DETAIL 33-35-09 SHEET 1 OF 1



- NOTES:**
- THE RESTRAINT SYSTEM SHOWN IS TYPICAL FOR BOTH ENDS OF DIRECTIONAL BORE.
 - ALL FITTINGS, RESTRAINT HARNESSSES, MEGA-LUGS, AND TRANSITION COUPLINGS SHALL BE INCLUDED IN THE UNIT PRICE FOR THE HDPE DIRECTIONAL BORE ITEMS.
 - GATE VALVES ARE SEPARATE PAY ITEMS AND ARE INCLUDED IN THE VALVE QUANTITIES IN THE PROPOSAL.
- M.J. DUCTILE IRON REDUCER WITH MEGA-LUGS
 PROVIDE MECHANICAL JOINT RESTRAINING GLAND TO HDPE ADAPTER
 PROVIDE FUSED-JOINT HDPE ADAPTER AT END OF DIRECTIONAL BORE PIPE

Green Engineering DIRECTIONAL BORE END RESTRAINT DETAIL (EACH END)
 LAST REVISED: AUGUST 1, 2017 BY: TKW
 DETAIL 33-30-05

Plotted on Tuesday, July 06, 2010 10:15:18 PM
 File Name: 10141-Mk.dwg
 Plot Style: 33-01-08A.ctb
 User: jeyaraj

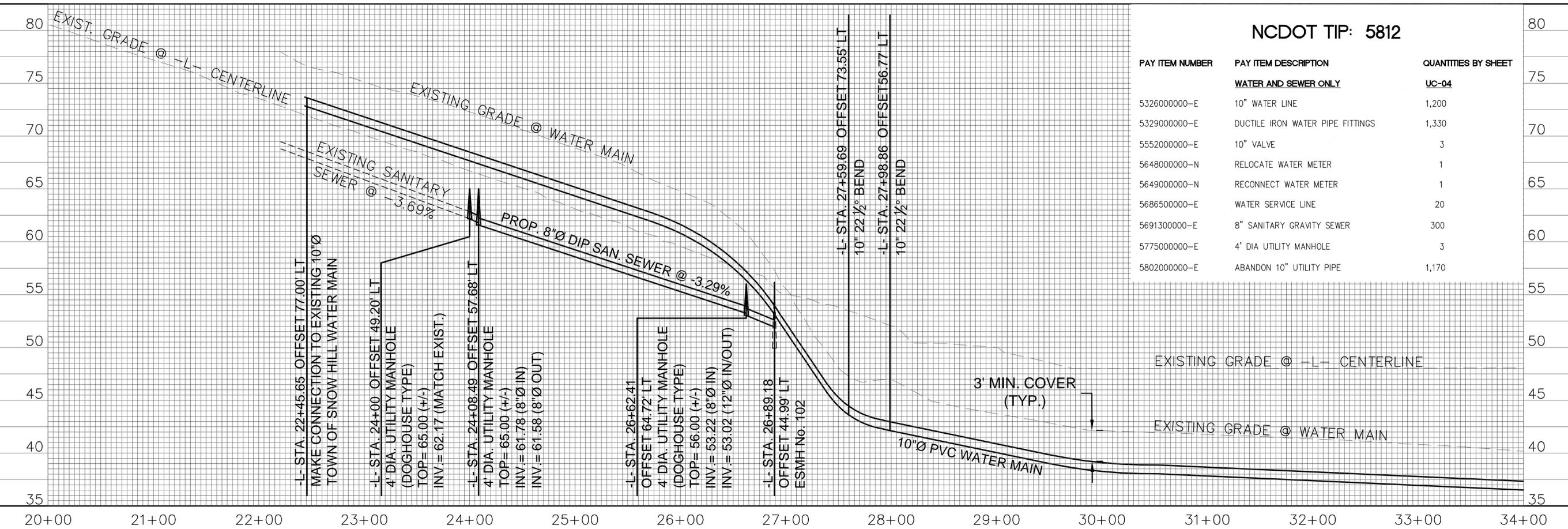


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UTILITY CONSTRUCTION

MATCHLINE -L- STA. 34 + 00.00
 SEE SHEET UC-5

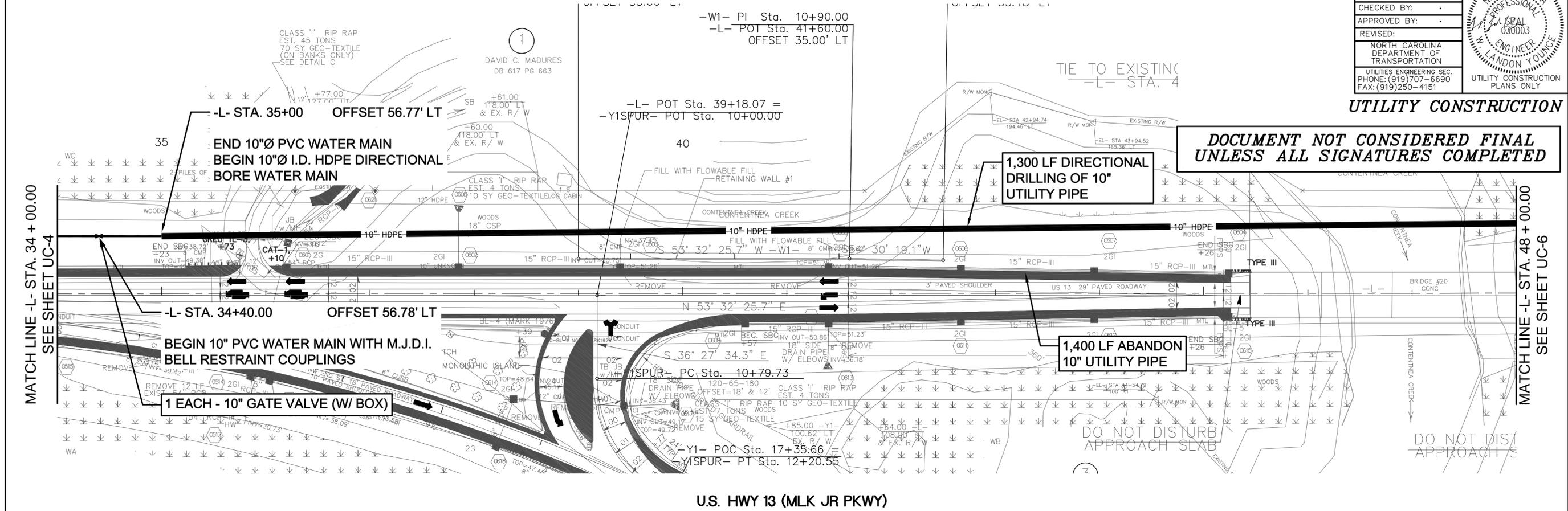
U.S. HWY 13 (MLK JR PKWY)



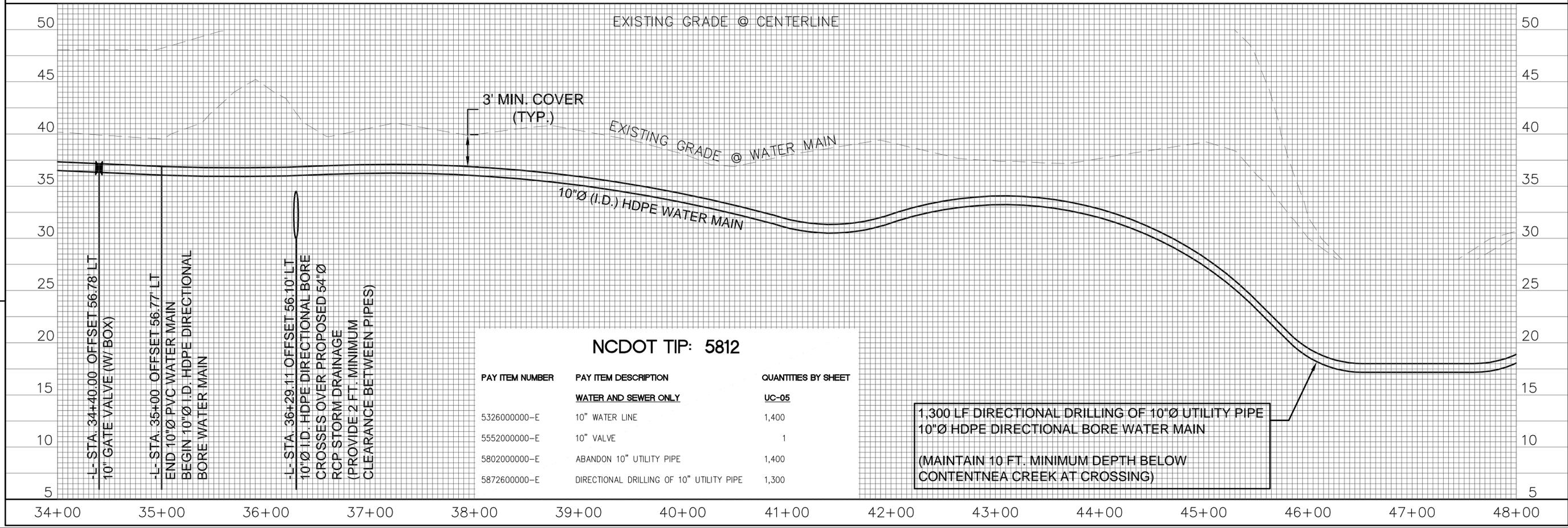
NCDOT TIP: 5812

PAY ITEM NUMBER	PAY ITEM DESCRIPTION	QUANTITIES BY SHEET	
		UC-04	
WATER AND SEWER ONLY			
5326000000-E	10" WATER LINE	1,200	
5329000000-E	DUCTILE IRON WATER PIPE FITTINGS	1,330	
5552000000-E	10" VALVE	3	
5648000000-N	RELOCATE WATER METER	1	
5649000000-N	RECONNECT WATER METER	1	
5686500000-E	WATER SERVICE LINE	20	
5691300000-E	8" SANITARY GRAVITY SEWER	300	
5775000000-E	4' DIA UTILITY MANHOLE	3	
5802000000-E	ABANDON 10" UTILITY PIPE	1,170	

REVISIONS



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NCDOT TIP: 5812

PAY ITEM NUMBER	PAY ITEM DESCRIPTION	QUANTITIES BY SHEET
WATER AND SEWER ONLY		
UC-05		
5326000000-E	10" WATER LINE	1,400
5552000000-E	10" VALVE	1
5802000000-E	ABANDON 10" UTILITY PIPE	1,400
5872600000-E	DIRECTIONAL DRILLING OF 10" UTILITY PIPE	1,300

**1,300 LF DIRECTIONAL DRILLING OF 10"Ø UTILITY PIPE
 10"Ø HDPE DIRECTIONAL BORE WATER MAIN
 (MAINTAIN 10 FT. MINIMUM DEPTH BELOW
 CONTENTNEA CREEK AT CROSSING)**

REVISIONS

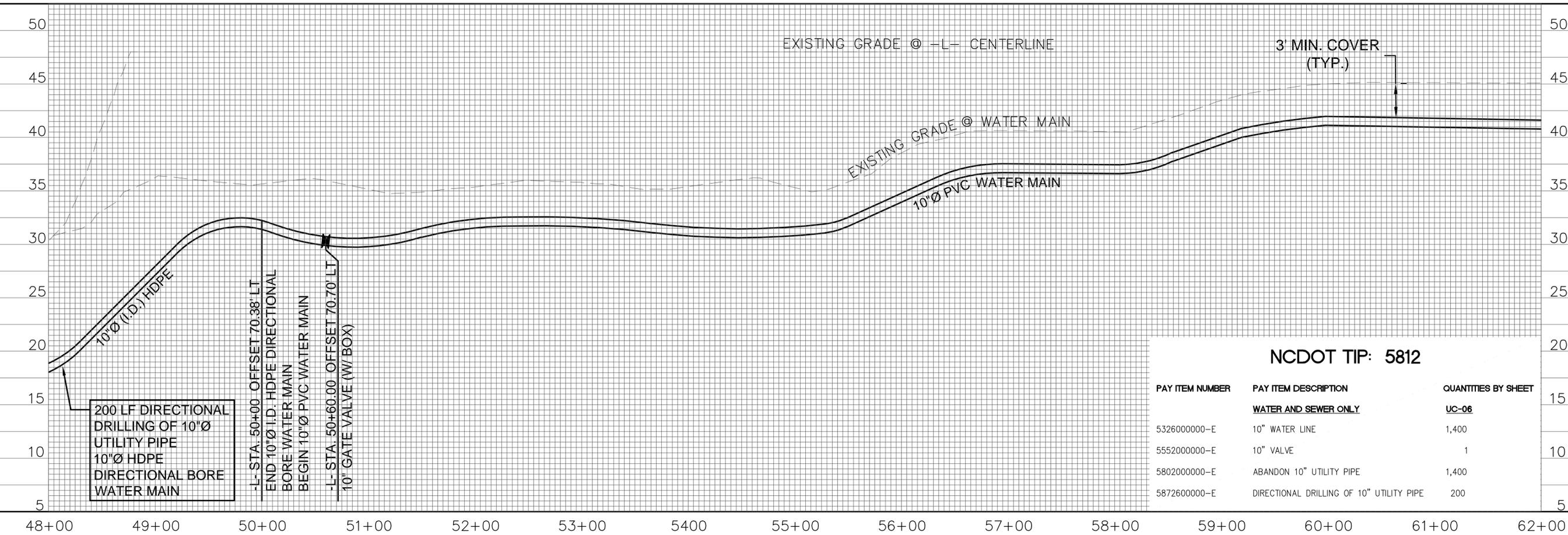
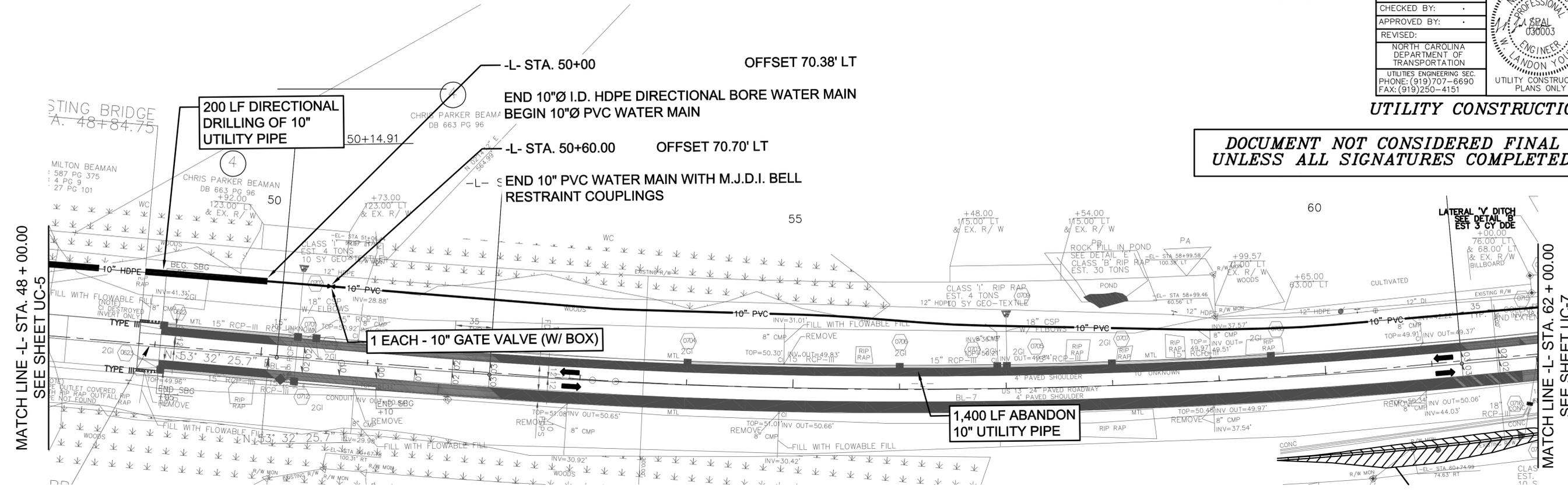
MATCH LINE -L- STA. 34 + 00.00
 SEE SHEET UC-4

MATCH LINE -L- STA. 48 + 00.00
 SEE SHEET UC-6

PROJECT REFERENCE NO.	SHEET NO.
R-5812	UC-6
DESIGNED BY: WLY	7/15/2011
DRAWN BY: WLY	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

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NCDOT TIP: 5812

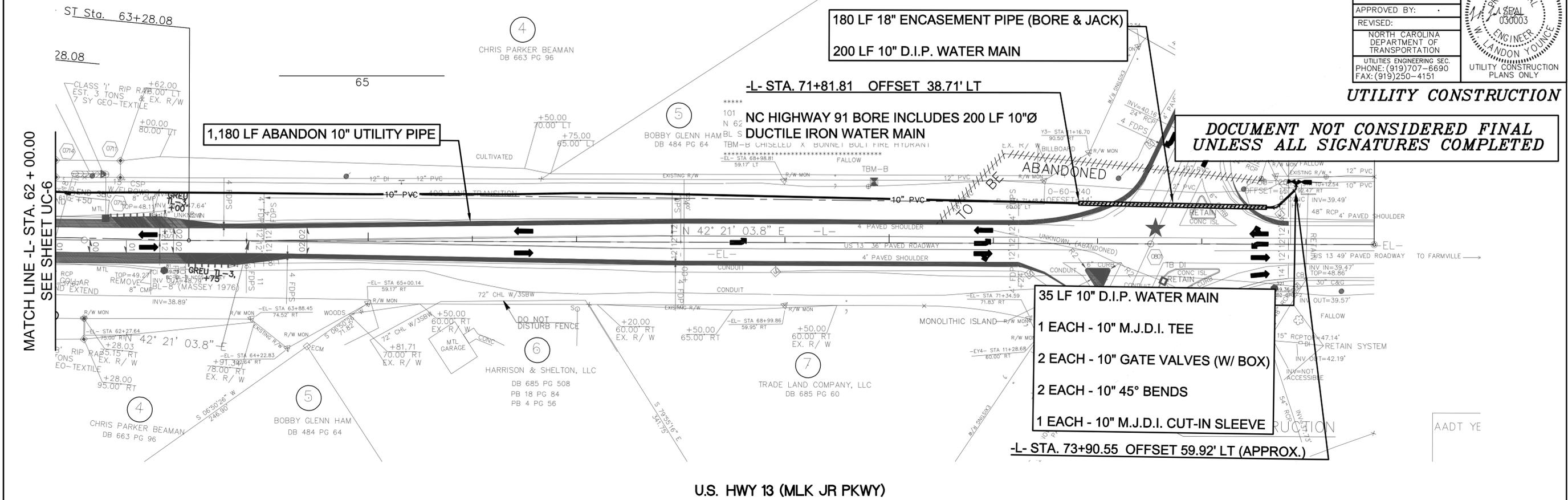
PAY ITEM NUMBER	PAY ITEM DESCRIPTION	QUANTITIES BY SHEET
	WATER AND SEWER ONLY	UC-06
5326000000-E	10" WATER LINE	1,400
5552000000-E	10" VALVE	1
5802000000-E	ABANDON 10" UTILITY PIPE	1,400
5872600000-E	DIRECTIONAL DRILLING OF 10" UTILITY PIPE	200

REVISIONS

MATCH LINE -L- STA. 48 + 00.00
 SEE SHEET UC-5

MATCH LINE -L- STA. 62 + 00.00
 SEE SHEET UC-7

U.S. HWY 13 (MLK JR PKWY)



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